

by the author irrespective of their place in the system. On the other hand, the arrangement is convenient to those who only want to purchase some of the monographs, as each fascicule is sold separately.

In our days of systematic uncertainty it is perhaps not to be wondered at that Mr. Olphe-Galliard still in the main adheres to the "natural system" which he proposed just thirty years ago, in pre-Darwinian times. It commences with the swimmers, runs through waders, birds of prey, Scansores, and Passeres, to Pigeons and game birds, and ends with the Ostriches, the object being to establish a lineal system which would represent the birds as forming a continuous chain between the "lower vertebrates" and the mammals.

American ornithologists will note with satisfaction that Mr. Olphe-Galliard has selected the year 1758 for his starting point in regard to the nomenclature, and that he declares for a strict adherence to the law of priority. We remark, however, that he adopts generic names previously applied in another class of animals, a course opposite to most previous codes of nomenclature, and also to Canon XXXIII, A. O. U. Code. Nor is the law of priority always respected as it ought to be. For instance, he accepts *Clivicola* of Forster as the older name, but refuses to recognize the same author's genera *Hirundo* and *Chelidon*, though their status in regard to Boie's subsequent appellations is exactly the same as that of *Clivicola*.

Want of space prevents us from entering into a detailed review, which may be reserved until the whole work is concluded. That the latest sources have not always been accessible to the author is hardly to be criticized when we know that the work has been prepared in a small provincial town far from the great libraries and museums. On the other hand, it is but just to mention that the author's great familiarity with foreign languages and literature is shown to great advantage throughout the book, and is the more to be appreciated since it is of so rare occurrence among the French ornithologists.

France has contributed very little to European ornithology during recent years, and the present work is really the only larger contribution since the publication of Degland and Gerbe's 'Ornithologie Européenne' twenty years ago.

The present work appears to be published entirely at the expense of the author, and its completion, therefore, depends upon the encouragement of the ornithological public expressed in numerous subscriptions, of which there ought to be no lack, as the price is very reasonable. The following fascicules have come to hand: I, Brevipennes (1884); V, Cygnidæ, and XXXIII, Ploceidæ (genus *Passer*!) (1885); XXXVII-XL, Gallinæ, and Cursores (1886); XXII, Brevipedes (1887).—L. S.

**Minor Ornithological Publications.**—'Forest and Stream,' Vols. XXVI and XXVII, contains the following (Nos. 1127-1199):—

1127. *Winter Snipe in Colorado*. By R. V. R. S. *Forest and Stream*, Vol. XXVI, No. 1, Jan. 26, 1886, p. 5.—Wilson's Snipe reported as occurring about warm spring holes in the coldest winter weather.

1128. *English Sparrow as Egg Robber*. E. D. Bowles. *Ibid.*, p. 5, Jan. 28, 1886.

1129. *Cardinal Bird in New York in Winter*. By C. P. *Ibid.*, No. 2, Feb. 4, 1886, p. 24.—Seen on several occasions in Central Park.

1130. *The Audubon Society*. Editorial. *Ibid.*, No. 3, Feb. 11, p. 41; No. 4, Feb. 18, p. 61.—Its formation proposed, and the work it is intended to do.

1131. *The Audubon Society*. *Ibid.*, No. 5, Feb. 25, pp. 83, 84.—Editorial remarks and letters on the Audubon Society.

1132. *Birds and Bonnets*. Frank M. Chapman. *Ibid.*, No. 6, Feb. 25, p. 84.—List of birds seen on ladies' hats in an afternoon's walk in New York City.

1133. *A Bill for Bird Protection*. *Ibid.*, No. 5, Feb. 25, p. 84.—The first appearance in print of the A. O. U. Committee's proposed bill.

1134. *The Audubon Society*. *Ibid.*, No. 6, March 4, pp. 103-104.—Editorial remarks and extracts from the A. O. U. Committee's 'Bulletin No. 1,' as published in 'Science,' followed by various letters on the work of the Society. See further, on the subject of the Audubon Society, No. 7, March 11, p. 124; No. 8, March 18, p. 141; No. 9, March 18, p. 144; No. 10, April 1, p. 182; No. 11, April 8, p. 201, 203; No. 12, April 15, p. 222; No. 13, April 22, p. 243; No. 14, April 29, p. 262; No. 15, May 6, p. 283; No. 17, May 20, p. 327; No. 18, May 27, p. 347; No. 23, July 1, p. 447; No. 24, July 8, p. 467; No. 25, July 15, p. 487.

1135. *The Feather Industry*. Editorial. *Ibid.*, No. 9, March 25, pp. 162, 163.—On the extent of the traffic in birds for millinery purposes.

1136. *The Ivory-Billed Woodpecker*. By Horace A. Kline. *Ibid.*, No. 9, March 25, p. 163.—Taken near St. Mark's River, Florida.

1137. *Hawks and Owls. Beneficial or Injurious?* *Ibid.*, No. 9, March 25, pp. 163, 164. Report of a committee of the West Chester (Pa.) Microscopical Society on the good and bad traits of these birds, including letters on the subject from Dr. C. Hart Merriam, Robert Ridgway Dr. Leonhard Stejneger, H. W. Henshaw, and L. M. Turner.

1138. *Taxidermists and Milliners' Agents*. By Raymond Lee Newcomb. *Ibid.*, No. 10, April 1, p. 183.

1139. *The Sparrow Hawk in Winter*. By H. W. Henshaw. *Ibid.*, No. 12, April 15, p. 223.—On its food in winter.

1140. *A Least Bittern's Nest in a Tree*. F. L. T. *Ibid.*, No. 12, April 15, p. 223.

1141. *Sparrow Hawks Wise and Foolish*. By M. G. Ellzey. *Ibid.*, No. 13, April 22, p. 224.—On its food in winter, in answer to Mr. Henshaw. (See above, No. 1139.)

1142. *The Sparrow Hawk's Services*. By A. (=H.) W. Henshaw. *Ibid.*, No. 14, April 19, p. 263. (Under the same title is a note also by Henry Litchfield West.)—In answer to the last (No. 1141).

1143. *Tame Ruffed Grouse*. By M. H. Cryder. *Ibid.*, No. 15, May 6, p. 284.—A frequent visitor to the dooryard, and so tame as to take food from the hand.

1144. *The Birds of Michigan*. By Dr. Morris Gibbs. *Ibid.*, No. 16, May 13, pp. 305, 306; Vol. XXVII, No. 7, Sept. 9, pp. 123, 124; No. 12, Oct. 14, pp. 223-224.

1145. [*Destruction of Pigeons in Pennsylvania*.] Editorial. *Ibid.*, No. 16, May 13, p. 302.—"Thousands and tens of thousands" killed on their nesting grounds.

1146. *The Sparrow Hawk*. By M. G. Ellzey, M. D. *Ibid.*, No. 16, May 13, p. 304.—A second reply to Mr. Henshaw (see above, No. 1142), respecting the Sparrow Hawk as a destroyer of grasshoppers, etc.

1147. *Eagles* [*Haliaeetus leucocephalus*] *breeding in Captivity*. By Henry Hulce. *Ibid.*, No. 17, May 20, p. 327.

1148. *Habits of the* [*Bald*] *Eagle*. By Henry Hulce. *Ibid.*, No. 19, June 3, p. 369.

1149. *Wildfowl of Western Waters*. By Junius P. Leach. *Ibid.*, No. 18, May 27, p. 348; No. 19, p. 370.—Valuable information respecting the Cranes, Swans, Geese, and Ducks.

1150. *A Note about Audubon*. *Ibid.*, No. 19, June 3, p. 369.—Extract from a private letter, written Jan. 2, 1841, by Lewis Warriner.

1151. *Birds of Central Park, New York* [*City*]. *A Preliminary List*. By Lewis B. Woodruff and Augustus G. Paine, Jr. *Ibid.*, No. 20, June 10, pp. 386, 387.—A briefly annotated list of 121 species. The European Goldfinch (*Carduelis elegans*) is given as "Resident; common; breeds." (See also *Ibid.*, No. 25, July 15, p. 488.)

1152. *The Toledo Eaglet*. By E. D. Potter. *Ibid.*, No. 20, May 10, p. 387.—Bred in confinement. (See above, No. 1148.)

1153. *Additions to California Avifauna*. By Walter E. Bryant. *Ibid.*, No. 22, June 24, p. 426.—The additions are *Porzana noveboracensis*, *P. carolina*, *Anas penelope*, and *Selasphorus floressii* (Loddiges).

1154. *The Toledo Eaglet*. By Henry Hulce. *Ibid.*, No. 22, June 24, p. 426. (See above, Nos. 1148 and 1152.)

1155. *Swifts, Humming Birds and Goatsuckers*. By R. W. Shufeldt. *Ibid.*, No. 23, July 1, p. 447.—On the relationship of these birds, and an appeal for aid in obtaining material for investigation.

1156. *Baru Owl in Ohio*. By A. Hall. *Ibid.*, No. 23, July 1, p. 446.

1157. *Two Hints in Taxidermy*. By W. E. B[ryant]. *Ibid.*, No. 24, July 8, p. 467.—(1) Strengthening the neck in small birds as well as large ones, by using a splinter of wood (as a hard-wood toothpick) in small birds, and a piece of wire or wood in larger ones; (2) the use of absorbent cotton for filling the skins.

1158. *Occurrence of the Ivory Gull at Halifax*, [*N. S.*]. By J. Mathew Jones. *Ibid.*, No. 25, July 15, p. 487.

1159. *Disappearance of the Bobolink* [*at Springfield, Mass.*]. By E. H. Lathrop. *Ibid.*, No. 26, July 22, p. 507.

1160. *Early Occurrence of the Great White Egret at Washington, D. C.* By C. Hart Merriam. *Ibid.*, No. 26, July 22, p. 508.—Taken July 15, 1886.

1161. *The Shore Birds*. By X. Y. Z. [=R. L. Newcomb]. *Ibid.*, No. 26, July 22, p. 509.—Dates of their arrival at Salem, Mass., in July 1886.

1162. *Prairie Fires and the [Pinnated] Grouse*. Editorial. *Ibid.*, Vol. XXVII, No. 1, July 21, 1886, p. 1.—The number of the birds sadly diminished by the late 'burning over' of prairie lands.

1163. *Bird Protection*. Editorial. *Ibid.*, No. 1, July 29, p. 4.—The blanks prepared for use by the American Museum of Natural History in issuing permits for collecting under the New York law are published, with editorial comment.

1164. [*Disappearance of*] *the Bobolink [in Central New York]*. By Portsa. *Ibid.*, No. 1, July 29, p. 4.

1165. *The Toledo Eaglet*. By Henry Hulce. *Ibid.*, No. 1, July 29, p. 4.—A further account of the Bald Eagle, hatched and reared in confinement. (See above, No. 1152.)

1166. *Cerros Island*. By Walter E. Bryant. *Ibid.*, No. 4, Aug. 19, pp. 62-64.—An interesting account of the Island, followed by an annotated list of the birds observed there, numbering 27 species.

1167. *The Audubon Society*. Editorial. *Ibid.*, No. 4, Aug. 19, p. 64.—Its incorporation, including 'Certificate of Incorporation.'

1168. *Occurrence of Turkey Buzzard on Long Island*. By Robert B. Lawrence. *Ibid.*, No. 4, Aug. 19, p. 64.—Seen at Flushing, Aug. 2, 1885.

1169. *The Future for American Ornithology*. By R. W. Shufeldt. *Ibid.*, No. 5, Aug. 26, p. 84.—A paper read before the Ridgway Ornithological Club of Chicago, Aug. 12, 1886, calling attention to useful lines of ornithological investigation, etc.

1170. *Bird Migration*. By B. Horsford. *Ibid.*, No. 6, Sept. 2, p. 103.—Pessimistic remarks on ornithological matters in general.

1171. *Two Indian Bird Stories*. L. W. Shultz. *Ibid.*, No. 6, Sept. 2, p. 104.—Folk-lore stories of the Woodpecker and Hawk.

1172. *The Audubon Society*. Editorial. *Ibid.*, No. 6, Sept. 2, p. 104; No. 10, p. 184; No. 19, Dec. 2, p. 361.

1173. *Can Birds Count Their Eggs*. By J. L. Davison. *Ibid.*, No. 6, Sept. 2, p. 104.

1174. *Spotted Sandpiper Swimming*. By H. A. Kline. *Ibid.*, No. 8, Sept. 16, p. 145.

1175. *John James Audubon*. By Charles Lanman. *Ibid.*, No. 9, Sept. 23, pp. 162, 163.

1176. *Economic Ornithology and Mammalogy*. *Ibid.*, No. 10, Sept. 30, p. 185.—The Circulars asking for information on the economic relations of birds and mammals, issued by the Chief of Division of Economic Ornithology and Mammalogy of the U. S. Department of Agriculture.

1177. *Wild Turkey Domestication*. By N. A. T. *Ibid.*, No. 11, Oct. 7, p. 204.

1178. *A Use for Falconry*. Editorial. *Ibid.*, No. 13, Oct. 21, p. 241.—Trained Hawks suggested as a means of protecting the rice fields from the depredations of the Ricebirds.

1179. *The Sport of Hawking*. By R. W. Seiss. I, II. *The Peregrine Falcon*. *Ibid.*, No. 13, Oct. 21, p. 243; No. 14, Oct. 28, p. 263;

III. *The Gyrfalcon*. No. 15, Nov. 4, pp. 282, 383; IV. *The Lanier Falcon*. No. 16, Nov. 11, pp. 202, 203; V. *The American Merlin and Kestrel*. No. 21, Dec. 16, pp. 403, 404.—On the rearing, training and management of Falcons for use in hawking. with illustrations.

1180. *Maryland Bird Notes*. By J. Murray Ellzey. *Ibid.*, No. 14, Oct. 28, p. 264.—A Hudsonian Godwit shot at West River, Md.

1181. *Snipe Decoration*. Editorial. *Ibid.*, No. 15, Nov. 4, p. 281.—Use of Snipe and migratory game birds for millinery purposes, in lieu of song birds.

1182. *That Thieving Rice Bird*. By Chas. F. Amery. *Ibid.*, No. 15, Nov. 4, pp. 283, 284.—On its probable utility as well as destructiveness.

1183. *Protection of Birds by Legislation*. Bulletin No. 2 of the A. O. U. Committee on Bird Protection. *Ibid.*, No. 16, Nov. 11, pp. 304, 305.

1184. *American Ornithologists' Union*. Editorial. *Ibid.*, No. 17, Nov. 18, p. 322, and No. 18, Nov. 25, p. 341.—Brief account of the annual meeting for 1886.

1185. *Capture of an Eider Duck*. By L. S. Foster. *Ibid.*, No. 17, Nov. 18, p. 323.—A young male *Somateria dresseri* shot Nov. 8, 1886, at Center Moriches, Long Island, N. Y.

1186. *Shore Bird Nomenclature*. By J. C. Cahoon. *Ibid.*, No. 18, Nov. 25, p. 343. See also No. 19, Dec 2, p. 363.

1187. *Snowy Owl in Illinois*. By H. A. Kline. *Ibid.*, No. 18, Nov. 25, p. 343.—An early record—Nov. 13, 1886.

1188. *Weapons in Game*. By Sancho. *Ibid.*, No. 18, Nov. 25, p. 343.—An ivory arrowhead in the breast of a Goose taken in Yolo Co., Cal.

1189. *A Golden Eagle in Connecticut*. By Inquirer. *Ibid.*, No. 19, Dec. 2, p. 362.—Taken near Stamford about Nov. 1, 1886.

1190. *Shore Bird Nomenclature*. By John Murdock. *Ibid.*, No. 20, Dec. 9, p. 382.

1191. "*Weapons in Game*." By John Murdock. *Ibid.*, No. 20, Dec. 9, p. 383.—In reply to 'Sancho' (See above, No. 1188); the ivory arrowhead identified as of Eskimo origin.

1192. *Song Bird Legislation*. By John D. Collins. *Ibid.*, No. 21, Dec. 16, p. 402.—An absurd arraignment of the New York law for the protection of birds.

1193. *Long Island Bird Notes*. By Robert B. Lawrence. *Ibid.*, No. 22, Dec. 23, p. 428.—Notes on 4 species—*Tringa maritima*, *Somateria dresseri*, *Oceanites oceanicus*, and *Nyctala acadica*.

1194. *Arizona Bird Notes*. By Herbert Brown. *Ibid.*, No. 24, Jan. 6, 1887, p. 464.—An interesting paper, relating chiefly to the winter birds.

1195. *Clark's Crow in British Columbia*. By John Fannin. *Ibid.*, No. 24, Jan. 6, 1887, p. 464.

1196. *Florida Bird Notes. Eagles, Hawks and Owls*. By Horace A. Kline. *Ibid.*, No. 25, Jan. 13, p. 484.—Contains nearly a column and a half on the nesting of the Bald Eagle, and interesting notes on several Hawks and Owls.

1197. *The Terns of Matinicus Rock, [Coast of Maine]*. By Wm. G.



Grant. *Ibid.*, No. 25, Jan. 13, p. 485.—On the wholesale slaughter of Terns at this point for millinery purposes by C. E. Cahoon, of Taunton, Mass., during the season of 1886.

1198. *Avian Tuberculosis in the Ruffed Grouse*. By Morton Grinnell, M. D. *Ibid.*, No. 26, Jan. 20, p. 503.

1199. *Migrating Meadow Larks*. By J. H. D. *Ibid.*, No. 26, Jan. 20, pp. 503, 504.—J. A. A.

**Publications Received.**—Berlepsch, Hans von. Systematisches Verzeichniss der von Herrn Ricardo Rohde in Paraguay gesammelten Vögel und Appendix Systematisches Verzeichniss der in der Republik Paraguay bisher beobachteten Vogelarten. (Separat. aus Journ. f. Orn., 1887, pp. 134 et seq.)

Blakiston, T. W. Water-Birds of Japan. (Proc. U. S. Nat. Mus., 1886, pp. 652-660.)

Bryant, Walter E. (1) Description of a new subspecies of Petrel from Guadalupe Island. (Bull. Cal. Acad. Sci. II, No. 8, 1887.) (2) Discovery of the nest and eggs of the Evening Grosbeak (*Coccothraustes vespertina*). (Ibid.) (3) Unusual Nesting Sites. (Ibid.)

Emerson, W. Otto. Ornithological Observations in San Diego County. (Bull. Cal. Acad. Sci. II, No. 7, 1887.)

Harvie-Brown, J. A., J. Cordeaux, R. M. Barrington, A. G. More and W. Eagle Clarke. Report on the Migration of Birds in the Spring and Autumn of 1886. 8vo, 1887, pp. 174.

Lawrence, G. N. Descriptions of New Species of Birds of the Families Sylviidae, Troglodytidae and Tyrannidae. (Ann. N. Y. Acad. Sci., IV, No. 2, 1887.)

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Menzbier, Michael v. (1) Die Zugstrassen der Vögel im Europäischen Russland. Mit zwei Karten. (Bull. Soc. imp. d. Nat. de Moscow. 1886, No. 2.) (2) Notiz über einen neuen Grünspecht, *Gecinus flavirostris*, n. sp. (Ibid.)

Merriam, C. Hart. Report of the Ornithologist [to the Department of Agriculture] for the year 1887. (Ann. Rep. Dept. Agr., 1886.)

Naroudnoï, N. Oiseaux de la Contrée Trans-Caspienne. Avec préface de M. Menzbier. (Ibid., 1885, No. 2.)

Nazarow, P. S. Recherches zoologiques des Steppes des Kirguiz. Avec carte et préface de M. Menzbier. (Ibid., 1866.)

Reichenow, A. Dr. Fischer's Ornithologische Sammlungen während der letzten Reise zum Victoria Njansa. (Journ. f. Orn., Jan. 1887.)

Ridgway, R. A Manual of North American Birds. Roy, 8vo, pp. 631, pll. 124. Philadelphia, 1887.

Shufeldt, R. W. (1) Notes on the Visceral Anatomy of certain Auks. (Proc. Zool. Soc. London, 1887, pp. 43-47.) (2) A Critical Comparison of a series of skulls of the Wild and Domesticated Turkeys. (Journ. Com.